

## LAND APPLICATION OF BIOSOLIDS TANJU SONUPARLAK

PG37 (FIELDS 3, 4, 6, 9 - 11) PRINCE GEORGE COUNTY, VIRGINIA APRIL 2013



May 14, 2013

Mr. Seth Mullins Dept. of Environmental Quality Piedmont Regional Office 4949-A Cox Road Glen Allen, VA 23060

Dear Mr. Mullins:

Transmitted herein for your consideration is land application site for Tanju Sonuparlak (designated as PG 37, (fields 3-4, 6, 9-11) located in Prince George County, Virginia. This submission contains strictly site specific information. Please refer to the operations and maintenance manual submitted under separate cover for all non-site specific information.

Do not hesitate to contact me at (804) 443-2170 should you have any questions or require additional information.

Sincerely,

D. Steve McMahon

Sr. Technical Services Director

D. Stur McMah

/cmw



### FIELD SUMMARY SHEET

Tanju Sonuparlak PG37

SYNAGRO FIELD #			FSA TRACT #	FSA FIELD #	TOPO QUAD	OWNER
37-03	7.0	7.0	375	3	Westover	Tanju K Sonuparlak
37-04	27.6	27.6	375	4	Westover	Tanju K Sonuparlak
37-06	9.8	9.8	375	6	Westover	Tanju K Sonuparlak
37-09	3.0	3.0	375	9	Westover	Tanju K Sonuparlak
37-10	29.5	29.4	375	10	Westover	Tanju K Sonuparlak
37-11	159.4	159.4	None	None	Westover	Tanju K Sonuparlak
TOTALS:	236.3	236.2				



#### VIRGINIA REQUEST AND CONSENT FOR BIOSOLIDS

	C 4 D 8	OPERATOR: TANJU K. SONUPARLAK PHONE: (804) 458-3400
		RESS: 1700 RUFFIN RD: HOPEWBLL , WA. 73860
	FARI	I LOCATION:
	P2/	
鄞		TRACT#:
	TOTA	AL ACREAGE: COUNTY:
	CRO	PS:
		agree to be responsible for adhering to the following conditions, where applicable:  The soil pH will be adjusted to > 6.0 when biosolids are applied. (This may be accomplished through the
	a.	application of lime-treated biosolids )
	b.	Do not graze animals on the land for 30 days after the application of biosolids. In addition, animals intended
		for dairy production should not be allowed to graze on the land or be fed chopped foliage for 60 days after the application of biosolids. Meat-producing livestock should not be fed chopped foliage for 30 days after the
		application of biosolids
	C.	Food crops for direct human consumption that are above the land surface shall not be narvested for 14
	ما	months after the application of biosolids.  Food crops for direct human consumption with harvested parts below the surface of the land shall not be
	d.	harvested for 20 months after the application of biosolids when the biosolids remain on the land surface > 4
		months prior to incorporation into the soil, or 38 months when the biosolids remain on the land surface < 4
	e.	months prior to incorporation.  Food crops, feed crops and fiber crops shall not be harvested for 30 days after application of biosolids.
	f.	Dublic access to land with a low potential for public exposure shall be restricted for 30 days. Public access to
		land with a high potential for public exposure shall be restricted for 1 year. No biosolids-amended soil shall be excavated or removed from the site for 30 days following the biosolids application unless adequate
		provisions are made to prevent public exposure to soil, dusts or aerosols.
	g.	Turf grown on land where biosolids are applied shall not be harvested for one year after application of
		biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by the permitting authority.
	h.	Supplemental commercial fertilizer or manure applications should be coordinated with the biosolids
		applications such that the total crop needs for nutrients are not exceeded as identified on the nutrient balance
		sheet or the nutrient management plan approved by the Virginia Department of Conservation and Recreation to be supplied to the farm operator by Synagro at the time of application of biosolids to a specific permitted
		cita
	i.	Tobacco, because it has been shown to accumulate cadmium, should not be grown for three years following
	2 1.	the application of biosolids-borne cadmium equal to or exceeding 0.45 lbs/acre.  understand that this transaction is not contemplated by the parties to be a sale of goods, and that Synagro is
	2. 11 W	illing to provide to me without charge the service of land applying biosolids which have been approved by the
	21	propriate regulatory agencies for land application.
	3. 1	understand that successful crop production depends on many variables, such as weather, soil conditions and pecific farming practices and that while Synagro has experience with land application of biosolids, the
	-	papagibility for properly accommodating agricultural practices to biosolids utilization are solely mine. I have also
	re	ead and understand the "Important Information About Using Biosolids as a Fertilizer" which is on the reverse side
	а	nd incorporated by reference in this Request and Consent.
		1941 K Gradolle 9-16-01
	C	PÉRATOR'S SIGNATURE DATE

### FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

#### PART D-VI: LAND APPLICATION AGREEMENT- BIOSOLIDS AND INDUSTRIAL RESIDUALS

	ICATION AGREEMENT- BIO		(LOID OF LE
agreement remains in eff	I residuals land application ag referred to here as "Landown ect until it is terminated in writi parcels identified in this agree a authorized to receive biosolic	er", and Synagro referred to r ing by either party or until own ement changes, those parcels	nership of all parcels changes.  for which ownership has
Landowner: I am the registered owner Virginia, which includes th as Exhibit A	r of real property known as ne agricultural sites identified b	pelow in Table 1 and identified	, located in, d on the tax map(s) attached
Table 1.: Parcels aut	horized to receive biosolids, w	ater treatment residuals or ot	her industrial sludges
Tax Parcel ID	tc Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
140(04) -1	140 (OF) 5	140 (04) - 1	
140 -2	130 74	PT OF EVERGREEN	
140 -3	130(0A)75		·
☐ Additional parcels containing La	nd Application Sites are identified on	Supplement A (check if applicable)	
In the event that I, the land within 38 months of the late 1. Notify the purchase closing date; and	am the sole owner of the proper am one of multiple owners of owner, sell or transfer all or pa est date of biosolids application er of the applicable public according to the sale within two we	the properties identified herei art of the property to which bion, I shall: ess and crop management re	osolids have been applied
if conditions change such the agreement becomes invalid	nat the fields are no longer av d.	allable to the permittee for ap	
identified above and in Exh above, before, during or aft Class B biosolids Wate	er land application of permitte er treatment residuals Fo es □ No ⋌⅓	tor DEQ staff to conduct instance of residuals for the purpose of the processing waste of the conduct instance of the conduct	f determining compliance.  her industrial sludges  Yes  No  No  No  Address Hoffwell Wall
Permittee:			23560
authorized by the VPA Per management plan prepare §10.1-104.2 of the Code of land application has communications at the site, a revision.	mit Regulation and in amount d for each land application fie f Virginia. Permittee will provi nenced. If the plan requires mo sed plan will be provided with	is not to exceed the rates ider Id by a person certified in acc de a copy of the NMP to the lodification to reflect the actual in 2 weeks of the modification	landowner within 30 days after I application rates or farming n.
Permittee agrees to notify	landowner or landowner design	gnee or the proposed scriedu	te for fattu application and

D. Steve MeMahow D. Stew MeMahow Champlain, VA 22438

Permittee- Authorized Representative Signature Mailing Address

Printed Name

applied.

specifically prior to any particular application to landowner's land. Notice shall include the source of residuals to be

Permittee: Synagro Central, LLC
Landowner: Danie Savu parlak

Permit # or County: <u>PRINCE Glorge</u>
Farm Name or Address:\_\_\_\_\_

#### Landowner Site Management Requirements:

I, the landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

- Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, at least 30 days after land application at that site was completed.
- 2. Public Access

a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.

- Public access to land with a low potential for public exposure shall be restricted for at least 30 days
  following any application of biosolids. No biosolids amended soil shall be excavated or removed from
  the site during this same period of time unless adequate provisions are made to prevent public
  exposure to soil, dusts or aerosols;
- c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by the permitting authority
- 3. Crop Restrictions:
  - a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
  - b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
  - c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
  - d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
  - e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy).
- 4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

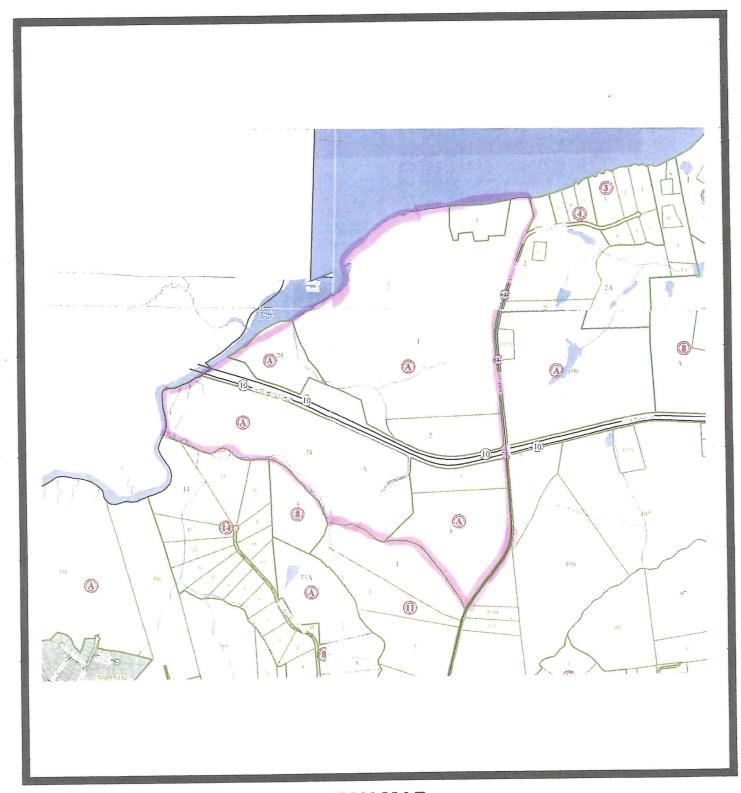
- a. Meat producing livestock shall not be grazed for 30 days,
- b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
- c. Other animals shall be restricted from grazing for 30 days;
- 5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
- Tobacco, because it has been shown to accumulate cadmium, should not be grown on landowner's land for three years following the application of biosolids or industrial residuals borne cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Landowner's Signature

Rev 10/03/2011



Tanju Sonuparlak PG37 Fields 3, 4, 6, 9, 10



TAX MAP

**Tax ID Landowner Identification Sheet** 

Landowner	Field #	Tax ID
Tanju K Sonuparlak	37-03	140(0A)00-001-0
Tanju K Sonuparlak	37-04	140(0A)00-001-0
Tanju K Sonuparlak	37-06	140(0A)00-001-0
Tanju K Sonuparlak	37-09	140(0A)00-001-0
Tanju K Sonuparlak	37-10	140(0A)00-001-0 140(0A)00-002-0
Tanju K Sonuparlak	37-11	130(0A)00-074-0 140(0A)00-003-0 140(0A)00-005-0

Field #	Latitude (north)	Longitude (west)
37-03	37 ° 17' 31.20"	77 <sup>o</sup> 14' 33.37"
37-04	37 ° 17' 38.59"	77 <sup>O</sup> 14' 25.23"
37-06	37 ° 17' 24.82"	77 <sup>O</sup> 14' 42.17"
37-09	37 ° 17' 09.40"	77 <sup>O</sup> 14' 36.69"
37-10	37 ° 17' 12.59"	77 <sup>O</sup> 14' 25.65"
37-11	37 ° 17' 01.76"	77 <sup>o</sup> 14' 50.26"

### **MAP LEGEND**



House/Dwelling with a well



**Rock Outcrop** 



Well



Lake/Pond



Slope which exceeds 15%



Intermittent Stream



Stream/River



Agricultural/Drainage Ditch



Field boundary



**Property Line** 

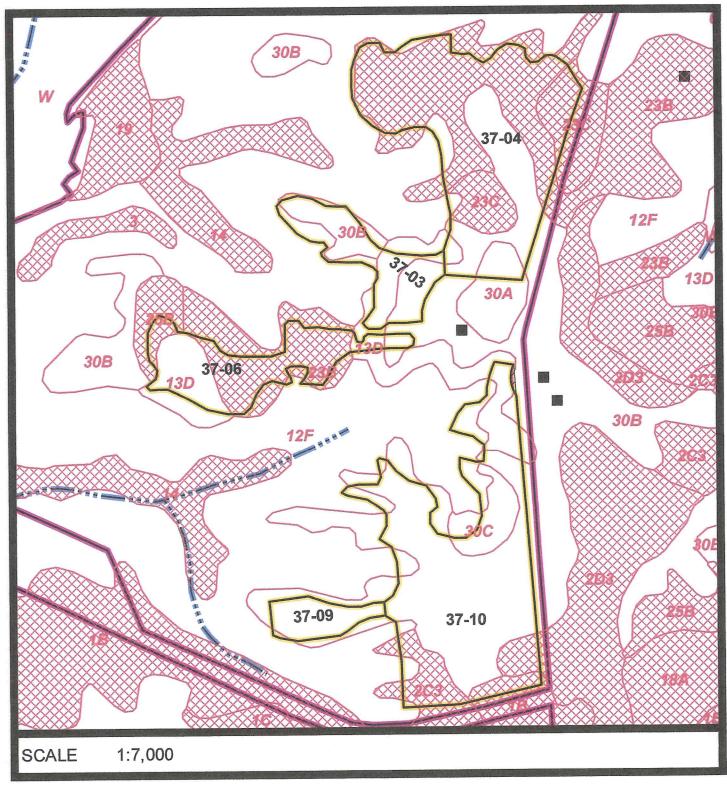


### **Environmentally Sensitive Areas**

Field	Reason for Sensitive Area
37-03	None
37-04	High Water Table (Map Units 23B, 23C - 75%)
37-06	High Water Table (Map Units 23B, 25B – 63%)
37-09	None
37-10	High Water Table (Map Unit 2C3 – 9%)
37-11	High Water Table (Map Units 1B, 2C3, 25B – 46%)

#### Prince George County Soils that are Environmentally Sensitive

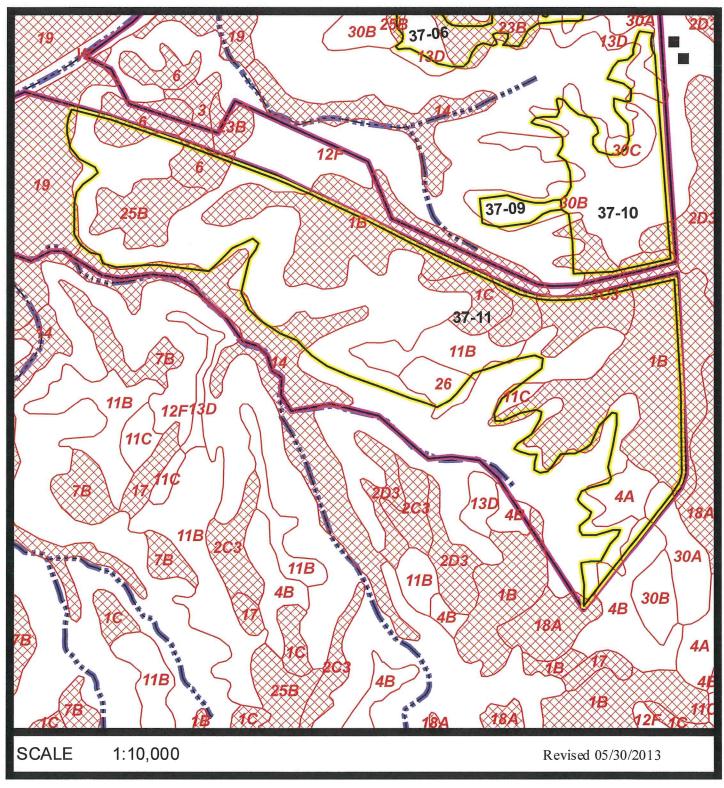
Soil Map Unit	Series Name	Time of year		Environmental
•		High Water	Flooded	
1A, 1B, 1C	Ackwater	Nov – March		
2C3, 2D3	Ackwater	Nov - March		
3	Argent	Nov – April		
5	Bojac			Leaching
6	Bolling	March - July	March - July	
7B, 7C	Bonneau			Leaching
8A, 8B	Burrowsville	Dec – April		
9	Catpoint	Dec – April		Leaching
10	Chickahominy	Nov – April	*	
14	Kinston	Nov – June	Nov – June	
15	Levy	Jan – Dec	Jan – Dec	Drainage
16, 17	Lynchburg	Nov – April		
18A, 18B	Montross	Dec – April		
19	Muckalee	Nov – April	Nov – April	Drainage
20	Newflat	Nov – April	•	
23A, 23B, 23C	Peawick	Nov - March		
24	Rains	Nov – April		W
25A, 25B, 25C	Slagle	Nov – April		



**SOIL MAP** 

## **SYNAGRO**

Tanju K Sonuparlak PG37 Field 11



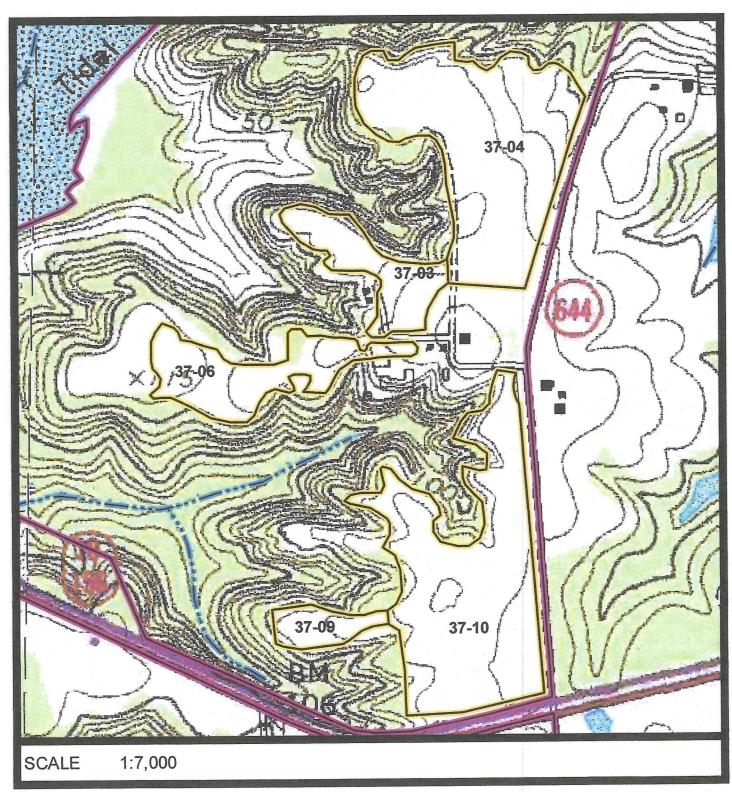
**SOIL MAP** 

**Environmentally Sensitive Areas** 

N

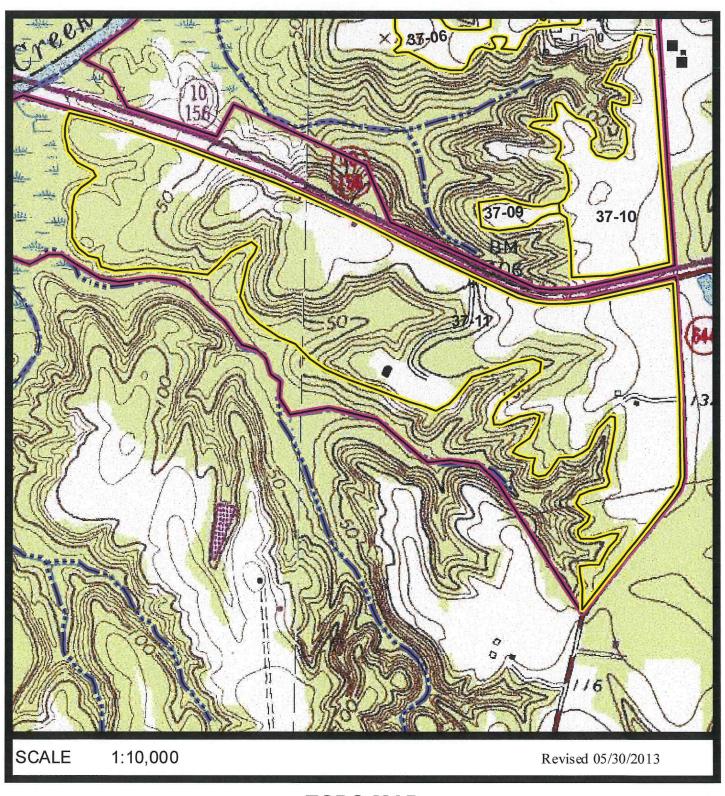
# **SYNAGRO**

Tanju K Sonuparlak PG37 Fields 3, 4, 6, 9, 10





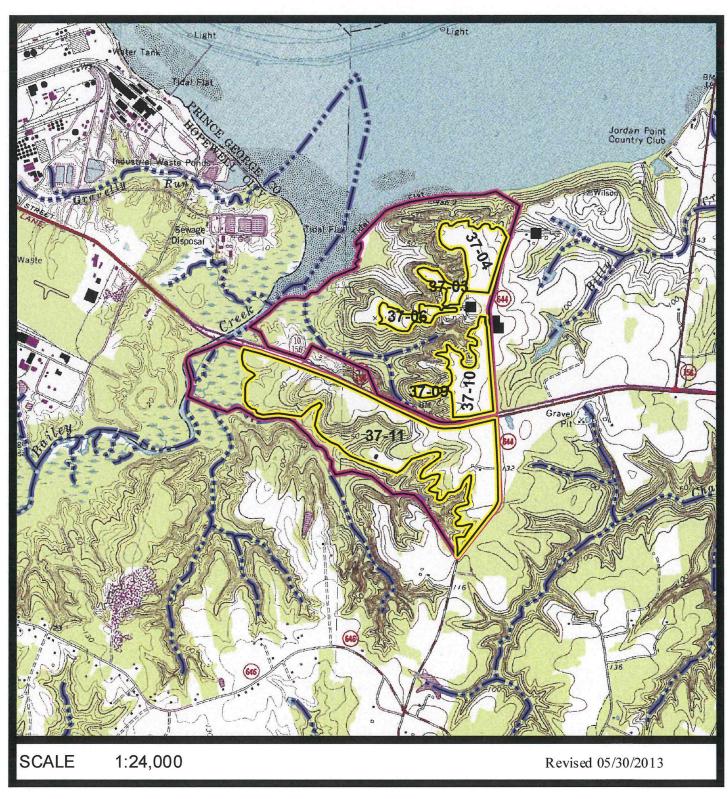
Tanju K Sonuparlak PG37 Field 11



**TOPO MAP** 

# **SYNAGRO**

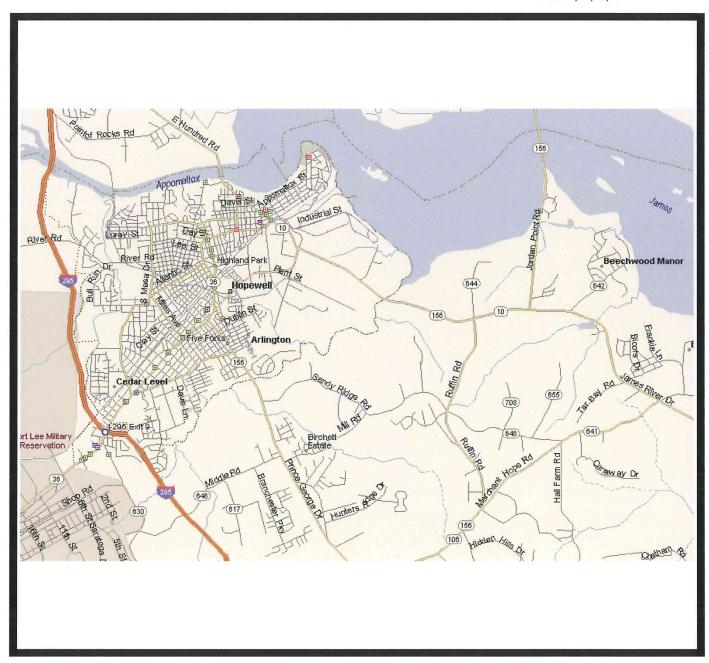
Tanju K Sonuparlak PG37 Fields 3, 4, 6, 9 – 11



**TOPO MAP** 



Tanju Sonuparlak PG37 Fields 3, 4, 6, 9 – 11



**LOCATION MAP**